

SRUTHY RAJESH BINDHU

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EDUCATION

University of Michigan-Dearborn
Masters in Data Science

Dearborn, MI
Expected graduation: April, 2027

Rajalakshmi Engineering College
Bachelor of Engineering in Computer Science and Engineering

Chennai, TN, India
2022

EXPERIENCE

Surabi Jewels Manufacturing

Aug, 2023 - May, 2025

Business Support Executive(Data & Sales)

- **Responsible** for supporting sales operations through data analysis, customer relationship management, and coordination with the sales team.
- **Maintained** sales records, generated performance reports, and provided insights to improve business growth.
- **Assisted** in handling client queries, preparing quotations, and ensuring smooth day-to-day operations in the jewellery business.

Tata Consultancy Services

Sept, 2022 - July, 2023

Assistant System Engineer Trainee

- **Supported** the development of banking and financial sector projects.
- **Developed** efficient troubleshooting protocols, **significantly reducing** resolution time for recurring issues.
- **Collaborated** with cross-functional teams to enhance system performance and ensure high-quality deliverables.

PROJECTS AND PRESENTATIONS

Crime Pattern Analysis & Predictive Modeling – Detroit

2025

- Performed large-scale spatio-temporal analysis of multi-year crime data using Python and built & evaluated SARIMAX and LSTM models for crime forecasting.

Relational Modeling & Performance Analysis of Global COVID-19 Data (PostgreSQL)

2025

- Designed a fully normalized relational schema and implemented complex analytical SQL queries, conducting indexing and execution-plan analysis to optimize query performance.

Business Intelligence: Sales Trends & Predictive Modeling

2025

- Performed end-to-end ETL and exploratory analysis on 500k+ transaction records; identified top 10% SKUs responsible for 60% of profit and three underperforming regions.

Business Analytics Case Study: Data-Driven Decision Making(Winning Model)

2025

- Analyzed company datasets to identify key business performance drivers and customer behavior patterns as a part of a competition.

Retinal Image Classification using Neural Networks

2022

- Developed a deep learning model to classify retinal images, leveraging neural networks to support medical diagnosis.
- Presented a research paper on this in “EDGE 2022(Third International Conference on Engineering Digital Green Era)” held by Rajalakshmi Engineering College.

SKILLS AND CERTIFICATIONS

- **Programming & Data:** Python (Pandas, NumPy), SQL (PostgreSQL)
- **Analytics & Modeling:** Exploratory Data Analysis, Forecasting (SARIMAX, LSTM), Statistical Analysis
- **Databases:** Relational modeling, normalization (3NF), indexing, query optimization
- **Machine Learning:** Transfer learning, CNNs (InceptionV3, VGG19, ResNet50), model evaluation
- Artificial Intelligence and Data Analytics certification - NoviTech Pvt Ltd
- Supply Chain Management - University of Michigan Dearborn